SUMMARY

IT2000 was developed to produce constructed facilities to achieve the highest quality in a cost-effective environment to benefit building owners, end users and all participants engaged in the conception, design, construction, operation and maintenance of a construction life cycle. This will leverage on the available state-of-the-art IT and dramatically re-engineer the business processes in the construction industry to bring about a quantum leap in turnaround time, productivity and quality. Cost-effective and top-quality facilities can be conceived, designed, built, and operated in a life-cycle context. This dissertation describes the background for Singapore's drive into the information age, the IT development and planning process. It provide an update on the latest approach in the construction industry development of various plan checking systems to propel the Construction and Real Estate Sector into the next millennium. The key focus of this dissertation is the process of integration plan checking and submission to achieve greater customer satisfaction and minimal duplication of works code name CORENET. This dissertation then advance into the philosophy of Concurrent Engineering which has the potential to re-optimise and re-energised the construction industry true life-cycle analysis. It brings together, from project inception, multiple individuals to address all angles of a project and enables the accumulation of knowledge and information so as to reduce downstream risks and anticipate constructability, operability, and maintainability expectations. This dissertation then suggests that the construction industry should continue adopting more facets of the Concurrent Engineering paradigm.